

AGRICULTURAL BUILDING SECTION TABLE OF CONTENTS SECTION 8

Barns, Bank	- 8 -	8
Barns, Dairy	- 8 -	12
Barns, Feed & Livestock	- 8 -	10
Barns, Flat	- 8 -	9
Barns, Small	- 8 -	18
Broiler Houses	- 8 -	29
Concrete Pits	- 8 -	25
Confined Cattle Feed Barns, & Free Stall Barns	- 8 -	15
Cribs		
Egg Laying Buildings	- 8 -	28
Feeder Bunks	- 8 -	44
Hay Sheds	- 8 -	19
Hog Confinement Units, Custom Built	- 8 -	23
Hog Confinements, Deluxe Open	- 8 -	24
Hog Confinement Units, Enclosed Component	- 8 -	22
Hog Confinement Units, Pre-cut & Owner Built	- 8 -	21
Hoop Houses	- 8 -	26
Lean-To's	- 8 -	11
Loafing Sheds	- 8 -	17
Machine or Utility Buildings	- 8 -	30
Mechanical Feeders with Automatic Controls	- 8 -	44
Milk Houses		
Milking Parlors	- 8 -	14
Miscellaneous Farm Improvement Picture Guide	- 8 -	41
Pole Barns		
Poultry Houses		
Preface	· 8 -	2
PVC Flex Auger Systems		
Reinforced Concrete Lagoons		
Sample Agricultural Card		
Sheds		
Silage Trenches or Pits		
Silos		
Slurry Systems		
Steel Building Picture Guide		
Steel Utility Buildings		
Steel Bulk Feed Tanks		
Steel Grain BinsSee pages 6-140 thru 6-143 (Precomputed Com		
Swine Finishing & Farrowing (Old Style)		
Wire Grain Storage Bins	- 8 -	39

AGRICULTURAL BUILDINGS PREFACE

DWELLING AND GARAGES

For equalization purposes between rural and urban properties, the physical depreciation used on these buildings should be consistent. Therefore, use the depreciation schedules which appear with the residential schedule. Functional and economic depreciation can be determined by investigating sales of rural properties.

VALUATION OF AGRICULTURAL BUILDINGS

The valuation of agricultural buildings can be complex in nature, due to the rapid change in farming practices. Agricultural buildings shall be valued by giving exclusive consideration to its productivity and net earning capacity rather than market value. It is difficult to separate agricultural buildings from a total farm unit sale, therefore, the assessor/appraiser must place a value on the improvements on the basis of use and the benefits that the farming operation receives from each individual structure.

REPLACEMENT COST

This section of the manual has been developed for the appraiser or assessor as a guide to establish the replacement cost rather than the reproduction cost of agricultural structures.

Replacement cost is the cost of replacing the building with the same utility except with present day construction materials. Reproduction cost is defined as replacing the structure with an exact replica.

The replacement costs in this section are calculated on the basis of non-union labor. These individual schedules of farm buildings are divided into six classifications or grades. The grading factors are merely a means of showing the difference between quality of construction. This allows the appraiser flexibility in arriving at the normal replacement cost of farm buildings. These grading factors are described as follows:

Class 1	Superior quality construction
Class 2	High quality construction
Class 3	Good construction
Class 4	Average construction
Class 5	Below average construction
Class 6	Sub-standard construction

The costs in this section are structures of average (4 grade) construction. An appropriate class should be determined for each structure. The grading tables, found in the grading section of this manual, should be utilized to adjust the base cost.

PHYSICAL DEPRECIATION

Physical depreciation is a loss in value due to physical wear and tear on the structure caused by use, elements and general deterioration. Quality of construction along with upkeep has a definite bearing on the amount of physical depreciation.

FUNCTIONAL DEPRECIATION

Functional depreciation is a loss in value caused from within the structure, such as: overbuilt, too great or too little capacity, design, limited use and any other factor which would cause loss of value from within.

ECONOMIC DEPRECIATION

Economic depreciation is defined as being that loss in value caused from without such as: government controls, marketing, availability of water, electricity, distance from market roads, and any other factor which might detract from the value of the buildings.

SUMMARY

The final analysis of value contributed to buildings of the farming operation, the appraiser or assessor must use sound reasoning along with all the appraisal experience at his command. All of the above mentioned factors should be taken into consideration in arriving at the final value.

DEPRECIATION GUIDE

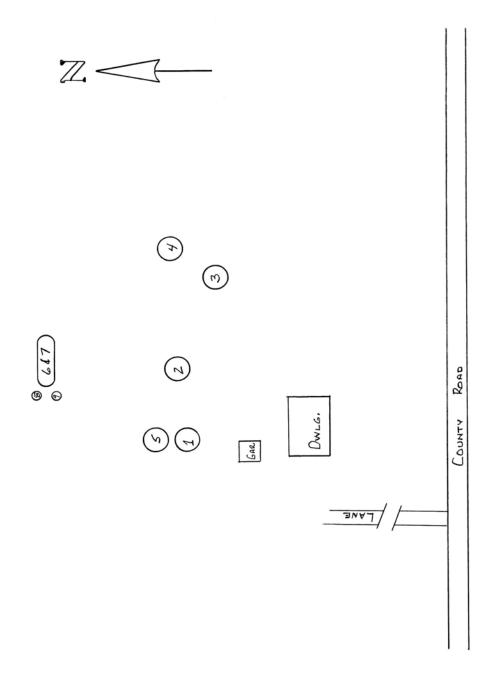
Generally farm buildings have a much shorter life than other structures. In this schedule we have estimated the physical depreciation up to 35 years with normal upkeep. The following guide must be adjusted on any structure having above or below normal upkeep.

The following chart contains three different depreciation tables. Table 1 should be used for structures which are not subject to the corrosive deterioration of livestock operations. Table 2 should be utilized for structures which have short lived items, such as grain bins, silos, etc. Table 3 is well suited for structures which are subject to the corrosive deterioration of livestock operations. The depreciation tables reflect structures in normal condition. Depreciation conclusions for structures with excellent maintenance or remodeling should be adjusted accordingly, as should structures with minimal maintenance and/or poor condition.

		Depreciation	n			epreciation	n
<u>Age</u>	Table 1	Table 2	Table 3	<u>Age</u>	Table 1	Table 2	Table 3
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3	3	6	9	21	37	64	70
4	4	8	12	22	40	69	70
5	5	11	15	23	43	70	70
6	7	13	19	24	46	70	70
7	9	16	22	25	49	70	70
8	10	19	26	26	52	70	70
9	11	21	30	27	55	70	70
10	13	24	34	28	58	70	70
11	15	27	38	29	61	70	70
12	17	31	43	30	64	70	70
13	19	34	47	31	67	70	70
14	21	38	52	32	70	70	70
15	23	42	56	33	70	70	70
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BANK BARN

Foundation Concrete or stone walls and footings.

<u>Walls</u> Masonry walls 10' high. Single siding on wood studs or board and batten 14' to 18' high, wood sash windows and wood doors.

Roof Wood or asphalt shingle, wood deck, wood rafters on gothic framing.

Floor Dirt with concrete runways.

Other Features Loft - 1" wood plank on wood joist with timber beams and column supports. Stalls and bins on lower level.

Mechanical Equipment Electric wiring.

<u>AREA</u>	PRICE PER S.F.	<u>4</u>
400	\$40.30	\$16,120
600	38.30	22,980
800	36.40	29,120
1,000	34.50	34,500
1,200	32.80	39,360
1,400	31.20	43,680
1,600	30.00	48,000
1,800	29.00	52,200
2,000	28.10	56,200
2,400	27.40	65,760
3,000	25.40	76,200
3,600	24.70	88,920
4,200	23.80	99,960
5,000	23.20	116,000
Over 5,000	23.10	

Concrete Floor Complete Area	(+)	\$2.00	P.S.F.
No Electric	(–)	0.90	P.S.F.
Masonry Construction	(+)	15%	





FLAT BARN

Foundation Concrete or stone walls and footings.

Walls 1" board and batten on single siding on wood studs, 16' to 20' walls, wood sash windows and wood doors.

Roof Gable or gambrel, wood or asphalt shingles on wood deck or wood roof boards, wood rafters, timber beams and columns supports.

Floor Dirt with concrete or wood runways.

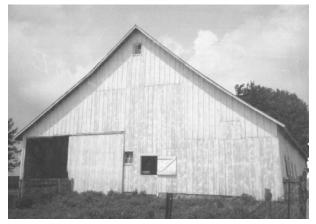
Loft 1" wood plank on wood joist with timber supports.

Mechanical Equipment Electrical wiring.

<u>AREA</u>	PRICE PER S.F.	<u>4</u>
1,000	\$24.40	\$24,400
1,200	23.20	27,840
1,400	22.80	31,920
1,600	21.90	35,040
1,800	21.20	38,160
2,000	21.00	42,000
2,400	20.40	48,960
3,000	19.70	59,100
3,600	19.10	68,760
4,200	18.60	78,120
5,000	18.30	91,500
Over 5,000	18.10	

Concrete Floor Complete Area	(+)	\$2.00 P.S.F.
No Electric	(–)	0.90 P.S.F.
Masonry Construction	(+)	15%





FEED AND LIVESTOCK BARNS

Foundation Concrete or equal walls and footings.

Walls Vertical single siding or board and batten on building framing, average 10' to 14' high, wood doors.

Roof Gable, asphalt or wood shingles, wood deck or roof boards, wood rafters, pole or wood beams and columns supports.

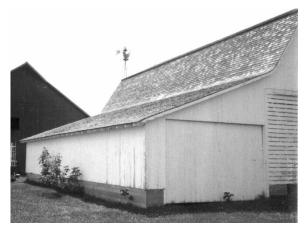
Floor Cattle area dirt, hay area concrete.

Other Features Self feed, slatted hay storage area.

Mechanical Equipment Electrical wiring.

<u>AREA</u>	PRICE PER S.F.	<u>4</u>
400	\$22.90	\$9,160
600	21.20	12,720
800	19.30	15,440
1,000	17.70	17,700
1,200	16.80	20,160
1,400	16.20	22,680
1,600	15.80	25,280
1,800	15.50	27,900
2,000	14.90	29,800
2,400	14.80	35,520
3,000	13.90	41,700
3,600	13.50	48,600
4,200	13.10	55,020
5,000	12.80	64,000
Over 5,000	12.60	

Concrete Floor Complete Area	(+)	\$2.00	P.S.F.
No Electric	(–)	0.80	P.S.F.
Masonry Construction	(+)	15%	





CLASS 4 CLASS 5

LEAN-TO

Foundation Pole set in earth or concrete.

Walls Vertical siding or corrugated metal on building framing. Walls 8' to 12' high.

Roof Shed type, single pitched, light weight shingles, roll roofing or corrugated metal covering.

Floor Earth.

ADEA	PRICE PER S.F.	CLOSED ALL SIDES	CLOSED ENDS ONLY	OPEN THREE SIDES
<u>AREA</u>	PER S.F.	ALL SIDES	ENDS ONLT	THREE SIDES
400	\$6.80	\$2,720	\$2,420	\$1,780
600	6.50	3,900	3,320	2,670
800	6.30	5,040	4,210	3,550
1,000	6.10	6,100	5,130	4,450
1,200	5.80	6,960	5,950	5,290
1,400	5.60	7,840	6,830	6,180
1,600	5.60	8,960	7,740	7,090
1,800	5.60	10,080	8,630	7,980
2,000	5.50	11,000	9,580	8,580
Over 2.000		5.50	4.80	4.20

		.		.	
Concrete Floor and Foundation	(+)	\$6.80	\$5.70	\$2.00	P.S.F.
Electric	(+)	0.60	0.50	0.45	P.S.F.





DAIRY BARN

Foundation Walls and footings (concrete or equal).

Walls Masonry walls 8' to 10' high, vertical siding ends, loft area average 16' to 20' high.

Roof Arched or bow string roof with composition shingles on wood deck.

Floor First - Concrete with trenches.

Second - 1" wood plank or D & M flooring on wood joist, timber supports.

Other Features Electrical wiring, water, stanchions and stalls.

<u>AREA</u>	PRICE PER S.F.	<u>4</u>
600	\$28.40	\$17,040
800	27.40	21,920
1,000	26.50	26,500
1,200	26.20	31,440
1,400	25.70	35,980
1,600	24.80	39,680
1,800	24.70	44,460
2,000	23.90	47,800
2,400	23.50	56,400
3,000	22.80	68,400
3,600	21.90	78,840
4,200	21.60	90,720
5,000	21.20	106,000
Over 5,000	21.00	

Earth Floor	(–)	\$3.10	P.S.F.
No Electric	(–)	1.70	P.S.F.
Heating	(+)	0.95	P.S.F.





MILK HOUSE

Foundation Walls and footings (concrete or equal).

Walls Concrete block or tile, painted 8' to 10' high, wood or steel sash windows, wood door.

Roof Flat or gable. Asphalt or wood shingles, wood rafters, painted ceiling.

Floor Concrete slab with floor drain.

Mechanical Equipment Electrical wiring and water.

<u>AREA</u>	PRICE PER S.F.	<u>4</u>
100	\$53.40	\$5,340
150	47.10	7,070
200	43.90	8,780
250	39.70	9,930
300	37.00	11,100
400	32.30	12,920
600	31.30	18,780
1,000	27.60	27,600
Over 1,000	27.40	

Glazed Tile Lined Walls	(+)			\$48.40	P.L.F.
Heating	(+)			2.10	P.S.F.
Frame Walls	(-)			4.80	P.S.F.
Water Heater	(+)	\$570.00	-	700.00	Each
Exhaust Fan	(+)	210.00	-	260.00	Each
Plumbing Fixtures	(+)			540.00	Each





MILKING PARLOR

Foundation Concrete walls and footings

<u>Walls</u> Masonry walls 8' to 10' high, steel sash or wood frame windows, wood doors, plaster direct and painted interior walls.

Roof Gable, composition shingles on 1" wood decking, wood rafters 24" on center, plaster board or equivalent ceiling, painted.

Floor Concrete with floor drains.

Other Features Electrical wiring, water.

<u>AREA</u>	PRICE PER S.F.	<u>4</u>
600	\$32.60	\$19,560
800	29.40	23,520
1,200	25.70	30,840
1,600	23.90	38,240
2,000	22.80	45,600
2,400	22.00	52,800
2,800	21.20	59,360
3,000	21.00	63,000
Over 3,000	20.90	

Glazed Tile Lined Walls	(+)	\$48.40 P.L.F.
Heating	(+)	2.10 P.S.F.
Frame Walls	(-)	4.80 P.S.F.
Water Heater	(+)	\$570.00 - 700.00 Each
Exhaust Fan	(+)	210.00 - 260.00 Each
Plumbing Fixtures	(+)	540.00 Each
Metal/Steel Frame	(+)	15%
Metal/Wood Frame	(-)	5%
Stanchions	(+)	90.00 Each
Milking Stalls	(+)	1,800.00 - 3,800.00 Each
Rotary Milking Stalls	(+)	5,000.00 - 9,000.00 Each





CONFINED CATTLE FEED BARN AND FREE STALL BARN

Foundation Poles set in concrete.

Walls Metal panels on wood framing, sliding wood door, one side open (open two sides on center drive type).

Roof Double pitch on wood framing.

Floor and Pit Earth floor at drive-thru 8' deep concrete pits and dividers with concrete slats.

Mechanical Water to building only (no heat and no electric).

Equipment Steel dividers, concrete feed bunks and heated waterers.

	SINGLE WITH SIDE DRIVE			DOUE	BLE WITH	CENTER DE	RIVE	
<u>AREA</u>	*BUILDING	<u>PIT</u>	EQUIP.	TOTAL	*BUILDING	<u>PIT</u>	EQUIP.	TOTAL
5,000	\$6.00	\$12.60	\$1.50	\$20.10	\$5.25	\$15.70	\$2.30	\$23.25
6,000	5.75	12.05	1.50	19.30	5.20	15.30	2.15	22.65
8,000	5.60	11.95	1.50	19.05	5.10	15.00	2.15	22.25
10,000	5.55	11.90	1.50	18.95	5.10	14.75	2.15	22.00
15,000	5.55	11.70	1.30	18.55	4.90	14.55	2.15	21.60
20,000	5.55	11.50	1.30	18.35	4.90	14.40	2.15	21.45
30,000	_	_	_	_	4.90	14.20	2.15	21.25
	*Steel framing add 40% to "Building"			*Steel fra	ming add	30% to "Build	dina"	

ADJUSTMENTS

Concrete Floor	(+)	\$3.15	P.S.F.
Electric	(+)	0.50	P.S.F.
6" Auger	(+)	43.00	P.L.F.
8" Auger	(+)	56.00	P.L.F.

All prices are average and may vary 20% for quality or workmanship and materials.





CLASS 4 CLASS 5

POLE BARN

Foundation Pole set in earth or concrete.

Walls Vertical siding or galvanized metal on building framing 10' to 16' high, wood sliding doors.

Roof Gable, asphalt shingles or corrugated metal on pole purlins and pole supports.

Floor Dirt.

Mechanical Equipment None.

<u>AREA</u>	PRICE PER S.F.	<u>4</u>
200	\$8.25	\$1,650
400	7.75	3,100
600	7.00	4,200
800	6.90	5,520
1,000	6.55	6,550
1,200	6.35	7,620
1,500	6.10	9,150
1,800	5.85	10,530
2,100	5.80	12,180
2,400	5.65	13,560
2,800	5.55	15,540
3,000	5.45	16,350
3,500	5.40	18,900
4,200	5.35	22,470
4,800	5.25	25,200
5,000	5.20	26,000
Over 5,000	5.15	

Concrete Floor	(+)	\$2.10	P.S.F.
Electric	(+)	0.80	P.S.F.
Loft	(+)	1.95	P.S.F.
Open Side (Each)	(-)	1.00	P.S.F.
Open End (Each)	(–)	0.60	P.S.F.





LOAFING SHEDS

Foundation Concrete walls and footings.

Walls Vertical siding on building framing 8' to 10' high, wood sash windows, wood doors.

Roof Gable, composition shingles on 1" wood deck, wood rafters.

Floor Earth.

Other Features None.

<u>AREA</u>	PRICE PER S.F.	<u>4</u>
600	\$12.10	\$7,260
800	11.60	9,280
1,000	11.40	11,400
1,200	10.30	12,360
1,400	9.60	13,440
1,600	9.50	15,200
1,800	9.30	16,740
2,000	8.90	17,800
2,400	8.60	20,640
2,800	8.40	23,520
3,200	8.20	26,240
4,000	7.90	31,600
5,000	7.50	37,500
Over 5,000	7.40	

Concrete Floor Complete Area	(+)	\$2.10 P.S.F.
Electric	(+)	0.80 P.S.F.
Masonry Construction	(+)	15%





SMALL BARNS

Foundation Concrete or stone walls and footings.

Walls 1" board and batten or single siding on wood studs, 16' to 20' walls, wood sash windows and wood doors.

Roof Gable or gambrel, wood or asphalt shingles on wood deck or wood roof boards, wood rafters, timber beams and columns supports.

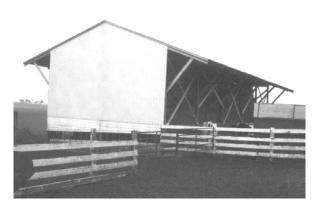
Floor Dirt floor.

Loft 1" wood plank on wood joist with timber supports.

Mechanical Equipment Electrical wiring.

<u>AREA</u>	PRICE PER S.F.	<u>4</u>	
200	\$38.00	\$7,600	
300	33.10	9,930	
400	29.60	11,840	
600	26.50	15,900	
800	25.20	20,160	
1,000	23.30	23,300	
1,200	22.30	26,760	
1,400	21.90	30,660	
1,600	21.00	33,600	

Concrete Floor Complete Area	(+)	\$2.00 P.S.F.
No Electric	(–)	0.80 P.S.F.
Overhead Garage Door	(+)	\$450.00 - 1.400.00 Each





HAY SHEDS

Foundation Poles set in concrete or earth.

Walls Wood fence 4' high, wire fencing balance of height, 14' to 20' high, open sides.

Roof Gable, metal on wood trusses on poles.

Floor Earth.

Mechanical Equipment None.

<u>AREA</u>	PRICE PER S.F.	<u>4</u>
400	\$5.45	\$2,180
600	5.30	3,180
800	5.10	4,080
1,000	4.85	4,850
1,200	4.70	5,640
1,400	4.65	6,510
1,600	4.20	6,720
1,800	4.05	7,290
2,000	4.00	8,000
2,200	3.75	8,250
2,400	3.55	8,520
2,600	3.50	9,100
2,800	3.40	9,520
3,000	3.35	10,050
Over 3,000	3.20	

Concrete Floor (+)	\$1.65	P.S.F.





CLASS 4 FINISHING

CLASS 4 FARROWING

SWINE FINISHING AND FARROWING

Foundation Concrete or equal walls and footings.

Walls 1" vertical siding on wood frame, 7' to 9' high, wood sash windows, wood doors.

Roof Gable. Asphalt or wood shingles on wood deck or roof boards. Wood rafters.

Floor Concrete slab.

Other Features Pens.

Mechanical Equipment Electrical wiring.

<u>AREA</u>	PRICE PER S.F.	<u>4</u>
200	\$23.85	\$4,770
400	21.25	8,500
600	18.90	11,340
800	17.90	14,320
1,000	17.35	17,350
1,200	15.80	18,960
1,400	15.25	21,350
1,600	14.70	23,520
1,800	14.45	26,010
2,000	13.85	27,700
2,800	13.10	36,680
3,200	12.85	41,120
4,000	12.10	48,400
Over 4,000	11.75	

ADJUSTMENTS TO BASE PRICE

No Floor	(–)	\$	2.10	P.S.F.
Ceiling	(+)		1.15	P.S.F.
Masonry Construction	(+)		15%	
No Electric	(-)		1.25	P.S.F.
Ventilation Fans	(+)	\$260.00 - 52	0.00	Each
Automatic Waterers & Piping	(+)	65.00 - 11	0.00	Each

Note: Swine Finishing Buildings - Deduct 10% to 20%





PRE-CUT AND OWNER BUILT HOG CONFINEMENT UNITS

Foundation Concrete.

Walls Plywood, vertical siding or metal on wood studs, board insulation with plywood equivalent interior.

Roof Metal or composition on plywood, wood rafters, insulation, plywood equivalent liner.

<u>Floor</u> Concrete or plastic slats over pits. (Pits not included in building price.)

Mechanical Minimum electric, small unit heaters, water to building (no fixtures), minimum ventilation fans.

Pits None. All pits are to be added from "Concrete Pit" schedule.

Equipment Metal pens and gates, waterers, and feeders.

These units are very similar in basic design, but will vary considerably with quality of workmanship and materials. The appraiser must classify carefully to reflect this variation.

The combination units include dividing walls.

Price differences of the units, due to use, reflect normal variations of equipment and building requirements.

Farrowing Gestation, Farrowing <u>Area Gestation Farrowing Nursery Finishing</u> <u>& Nursery Nursery & Finishing</u>	
800 \$33.80 \$36.20 \$38.00 \$27.10 \$37.80 \$35.50	
1,000 32.00 34.40 36.20 25.30 36.00 33.70	
1,200 30.80 33.20 35.00 24.10 34.80 32.50	
1,600 29.30 31.70 33.50 22.60 33.30 31.00	
2,000 28.40 30.80 32.60 21.70 32.20 29.60	
2,400 27.80 30.20 32.00 21.10 31.40 28.60	
3,000 27.20 29.60 31.40 20.50 30.60 27.60	
4,000 26.70 29.00 30.80 19.90 29.80 26.70	
5,000 26.00 28.40 30.20 19.30 29.20 26.00	
<u>ADJUSTMENTS</u>	
No Equipment (–) 10.80 11.90 9.60 2.80 10.80 7.50 P.5	S.F.
Deduct	
Slatted Floors (-) 3.40 5.00 5.00 3.40 5.00 4.45 P.5	S.F.
Conc. Floor	
with no Pit (+) 4.85 4.85 4.85 4.85 4.85 P.5	S.F.

Buildings over 6,000 S.F. should be priced as "Custom Built Hog Confinement Units".

GRADE GUIDE:

- **3 Grade** Buildings with vinyl covered wood exterior walls or equivalent. Glassboard interior or equivalent and/or coated wire floor slats.
- **4 Grade** See specifications at top of page.
- **5 Grade** Buildings with no interior liner and/or buildings built with low quality materials, buildings with manual ventilation only.



ENCLOSED COMPONENT HOG CONFINEMENT UNITS

These units are prebuilt and generally come in 12'-14' wide sections. Units with built-in (B-I) pits are usually set on piers. The pits are generally of fiberglass and are 3' deep. Units with concrete pits rest directly on the pit walls.

BASIC SPECIFICATIONS

Foundation None.

Walls Metal panels on wood frame with insulation and fiberglass or equivalent interior liner.

Roof Low double pitch metal roof on wood frame, insulation, fiberglass or equivalent ceiling.

Floor Aluminum, wood, concrete or plastic slats.

Mechanical Heating, ventilating, electric and water included in all buildings.

Equipment Prices include necessary stalls, pens, gates and/or crates, waterers and feeders (does not include feed auger system or bulk bins).

		Farrowing	ı, Nursery	Combination	n Farrowing		
		or Fin	ishing	And N		Gest	ation
<u>WIDTH</u>	<u>AREA</u>	NO PITS	<u>B-I PITS</u>	NO PITS	<u>B-I PITS</u>	NO PITS	B-I PITS
12'	300	\$60.20	\$63.00	\$63.80	\$69.90	\$76.00	\$79.40
12'	400	57.50	60.90	61.20	67.20	72.60	77.00
12'	500	56.00	59.30	59.40	65.30	70.70	74.90
12'	600	55.20	58.50	58.50	64.30	69.60	73.80
12'	700+	54.50	57.80	57.80	63.60	68.80	73.00
14'	350	54.30	56.70	57.40	62.80	68.40	71.50
14'	500	50.50	53.30	53.40	58.80	63.60	67.50
14'	600	49.60	52.60	52.60	57.90	62.70	66.50
14'	700	49.10	52.10	52.00	57.30	61.90	65.70
14'	+008	48.80	51.70	51.50	56.80	61.20	65.00
24'	700	59.40	62.70	63.00	68.80	74.90	79.00
24'	900	57.30	60.50	60.80	66.40	71.90	76.20
24'	1,100	55.60	59.00	59.00	64.60	70.00	74.30
24'	1,300	55.10	58.30	58.50	64.10	69.60	73.60
24'	1,600	54.30	57.70	57.70	63.10	68.40	72.60
24'	2,000	53.70	57.00	57.00	62.30	67.60	71.80
24'	2,400+	53.00	56.40	56.00	61.30	66.60	70.90
36'	1,300	57.00	60.20	60.20	65.80	71.80	76.00
36'	1,600	55.50	58.80	59.30	64.30	69.80	74.10
36'	2,000	54.80	58.20	58.20	63.50	69.00	73.20
36'	2,500	54.30	57.70	57.70	63.00	68.40	72.60
36'	3,000	53.30	56.40	56.60	61.70	67.30	70.90
36'	3,600+	52.90	56.00	55.90	61.10	66.50	70.60

Units with concrete pits - Use above "No Pits" schedule and add for pits from "Concrete Pit" schedule.





CUSTOM BUILT HOG CONFINEMENT UNITS

These units are generally two or more buildings joined by an office/entry section or middle hub.

Foundation Concrete.

Walls Metal panels on wood frame, insulation and interior liner.

Roof Low double pitch metal panels on wood frame, insulation, interior lining.

<u>Floors</u> Concrete or plastic slats over pits. (Pits not included in building price.)

Mechanical Heating, ventilating, electric and water services.

Equipment Pens, gates, crates, waterers, and feeders (no augers or bulk bins included).

Pits None. Add for pits from "Concrete Pits" schedule.

These units are very similar in basic design, but will vary considerably with quality of workmanship and materials. The appraiser must classify carefully to reflect this variation.

The combination units include dividing walls. Price differences of the units, due to use, reflect normal variations of equipment and building requirements.

Ge <u>Area Gestation</u> <u>Farrowing Nursery Finishing</u>	Combination estation, Farrowing <u>& Nursery</u>	Combination Gestation, Farrowin Nursery & Finishin	_
*6,000 \$25.70 \$28.10 \$29.90 \$19.00	\$30.40	\$27.10	
8,000 25.40 27.80 29.50 18.70	29.80	26.40	
10,000 25.20 27.60 29.30 18.50	29.40	26.00	
12,000 25.00 27.40 29.20 18.30	29.20	25.80	
15,000 24.90 27.30 29.10 18.20	29.00	25.50	
20,000 24.80 27.20 28.90 18.10	28.80	25.20	
25,000 24.70 27.10 28.90 18.00	28.60	25.00	
30,000 24.60 27.00 28.80 17.90 ADJUSTMENTS	28.50	24.90	
No Equipment (–) 10.80 11.90 9.60 2.80	10.80	7.50	P.S.F.
Deduct			
Slatted Floors (–) 3.40 5.00 5.00 3.40	5.00	4.45	P.S.F.
Conc. Floor			
with no Pit (+) 4.85 4.85 4.85 4.85	4.85	4.85	P.S.F.
Attached Enclosed Walkways (+)	\$16.0		P.S.F.
Interior Offices (+)	21.0	00 - 26.00	P.S.F.

Plumbing (See "Analyzed Unit Cost")

GRADE GUIDE:

- **3 Grade** Buildings with vinyl covered wood exterior walls or equivalent. Glassboard interior or equivalent and/or coated wire floor slats.
- **4 Grade** See specifications at top of page.
- **5 Grade** Buildings with no interior liner and/or buildings built with low quality materials. Most franchise type facilities.

^{*}Buildings under 6,000 S.F. should be priced as "Pre-Cut Owner Built Hog Confinements".





DELUXE OPEN HOG CONFINEMENT

Foundation Concrete walls and footings.

Walls Concrete walls approximately 2'6" high with metal or wood extending to roof.

Roof Metal or wood on wood frame.

Floor Concrete.

Pens Concrete, steel or masonry dividers approximately 8' on center.

Mechanical Electric and water service to building.

Equipment Waterers and feeders (no augers or bulk bins included).

Pits None. Add for pits from "Concrete Pits" schedule.

BUILDING AREA

<u>AREA</u>	BASE PRICE	HEATED FLOOR	BUILDING TOTAL
800	\$26.65	\$3.00	\$29.65
1,200	24.45	3.00	27.45
1,600	23.60	3.00	26.60
2,400	23.00	3.00	26.00
2,800	22.75	3.00	25.75
3,200 & Over	22.50	3.00	25.50

"BUILDING AREA" ADJUSTMENTS

No Dividers	(–)	\$4.90	P.S.F.
No Plumbing to Building	(–)	1.10	P.S.F.
No Waterers	(-)	0.55	P.S.F.
No Feeders	(–)	0.70	P.S.F.
No Electric	(-)	0.55	P.S.F.

PEN AREA

Concrete Pen Area With Dividers	\$5.40	P.S.F.
Concrete Pen Area - No Dividers	3.50	P.S.F.

CONCRETE PITS

	SQUARE FOOT AREA OF PIT													
														35,000
Pit Width	150	300	500	750	1,000	1,500	2,000	3,000	6,000	10,000	15,000	20,000	25,000	or More
						<u>2'</u>	DEPTH	OR LES	<u>ss</u>					
4' to 6'	\$12.20	\$11.35	\$11.05	\$10.85	\$10.75	\$10.65	\$10.65	\$10.60	\$10.55	_	_	_	_	_
8' to 14'	_	8.65	7.95	7.70	7.45	7.30	7.20	7.10	7.05	\$7.00	_	_	_	_
24' to 34'	_	_	_	6.70	6.45	6.05	5.85	5.70	5.50	5.45	\$5.40	\$5.40	\$5.40	_
36' to 46'	_	_	_	_	6.35	5.80	5.55	5.25	5.00	4.90	4.85	4.85	4.80	\$4.80
48' & Over	_			_		_	5.45	5.15	4.80	4.65	4.60	4.55	4.55	4.50
							<u>4' DE</u>	PTH						
4' to 6'	\$19.05	\$17.55	\$17.00	\$16.65	\$16.45	\$16.30	\$16.25	\$16.15	\$16.10	_	_	_	_	_
8' to 14'	_	12.75	11.50	11.00	10.60	10.30	10.15	10.00	9.85	\$9.80	_	_	_	_
24' to 34'	_	_	_	9.35	8.80	8.20	7.80	7.50	7.20	7.10	\$7.00	\$7.00	\$6.95	_
36' to 46'	_	_	_	_	8.65	7.70	7.20	6.75	6.30	6.10	6.05	6.00	5.95	\$5.90
48' & Over	_	_	_	_	_	_	7.10	6.50	5.90	5.70	5.55	5.50	5.45	5.40
							<u>6' DE</u>	PTH						
4' to 6'	\$25.90	\$23.70	\$22.90	\$22.40	\$22.20	\$21.95	\$21.85	\$21.75	\$21.65	_	_	_	_	_
8' to 14'	· —	16.80	15.05	14.30	13.75	13.35	13.10	12.90	12.70	\$12.60	_	_	_	_
24' to 34'	_	_	_	11.95	11.15	10.30	9.75	9.30	8.90	8.70	\$8.65	\$8.60	\$8.55	_
36' to 46'	_	_	_	_	10.95	9.60	8.90	8.25	7.60	7.35	7.20	7.15	7.10	\$7.05
48' & Over	_			_		_	8.80	7.90	7.05	6.70	6.55	6.45	6.40	6.35
							<u>8' DE</u>	PTH						
4' to 6'	\$32.70	\$29.90	\$28.80	\$28.20	\$27.90	\$27.60	\$27.45	\$27.35	\$27.20	_	_	_	_	_
8' to 14'	· —	20.90	18.60	17.65	16.95	16.35	16.05	15.80	15.50	\$15.40	_	_	_	_
24' to 34'	_	_	_	14.60	13.55	12.40	11.70	11.15	10.55	10.35	\$10.25	\$10.20	\$10.15	
36' to 46'	_	_	_	_	13.30	11.50	10.60	9.75	8.90	8.55	8.40	8.30	8.25	\$8.20
48' & Over	_		_	_	_	_	10.45	9.30	8.20	7.75	7.50	7.40	7.30	7.25
							10' DE	<u>EPTH</u>						
4' to 6'	\$39.55	\$36.05	\$34.75	\$33.95	\$33.60	\$33.25	\$33.10	\$32.90	\$32.75	_	_	_	_	_
8' to 14'	_	25.00	22.15	20.95	20.10	19.35	19.05	18.65	18.30	\$18.20	_	_	_	_
24' to 34'	_	_	_	17.20	15.90	14.50	13.65	12.95	12.25	12.00	\$11.85	\$11.75	\$11.75	_
36' to 46'	_	_	_	_	15.60	13.40	12.30	11.25	10.20	9.75	9.55	9.45	9.40	\$9.30
48' & Over	_	_	_	_	_	_	12.10	10.70	9.30	8.75	8.45	8.35	8.25	8.15

Concrete pit schedule to be used with "Enclosed Component Hog Confinement Units", "Pre-cut and Owner Built Hog Confinement Units", and "Deluxe Open Hog Confinement" type units having pits.

Prices are per square foot of pit floor area.

REINFORCED CONCRETE LAGOONS

DIA x DEPTH	<u>PRICE</u>	DIA x DEPTH	<u>PRICE</u>	DIA x DEPTH	<u>PRICE</u>
80 x 10	\$57,500	115 x 10	\$95,600	170 x 10	\$171,600
80 x 12	58,200	115 x 12	97,100	170 x 12	174,800
85 x 10	62,500	120 x 10	101,700	190 x 10	204,000
85 x 12	63,300	120 x 12	103,300	190 x 12	208,100
90 x 10	67,600	125 x 10	108,000	210 x 10	239,100
90 x 12	68,500	125 x 12	109,700	210 x 12	244,000
95 x 10	72,900	130 x 10	114,400	230 x 10	276,700
95 x 12	73,900	130 x 12	116,300	230 x 12	282,600
100 x 10	78,300	135 x 10	121,000	250 x 10	316,900
100 x 12	79,400	135 x 12	123,000	250 x 12	323,900
105 x 10	83,900	140 x 10	127,700		
105 x 12	85,200	140 x 12	129,900		
110 x 10	89,700	150 x 10	141,700		
110 x 12	91,100	150 x 12	144,200		





HOOP HOUSES

Foundation None, poles may be set in concrete.

Walls & Roof Quonset style, galvanized steel tubing with a translucent multi fabric cover. (70' or wider assumes double pipe truss system.)

<u>Floor</u> Dirt <u>Mechanical Equipment</u> None.

Mechanical Equipment None.							
_				WIDTH			
			PRICE	PER SQU	ARE FOC)T	
S.F. of Bldg.	<u>20'</u>	<u>24'</u>	<u>30'</u>	<u>35'-37'</u>	<u>42'</u>	<u>50'-60'</u>	70' or wider
350	\$5.79	_	_	_	_	_	_
400	5.56	\$5.22	_	_	_	_	_
500	5.34	4.85	_	_	_	_	_
600	5.11	4.73	_	_	_	_	_
700	4.89	4.61	_	_	_	_	_
800	4.77	4.50	_	_	_	_	_
900	4.67	4.41	\$4.80	_	_	_	_
1,000	4.62	4.32	4.65	\$4.94	_	_	_
1,250	4.53	4.20	4.53	4.80	\$6.17	_	_
1,500	4.46	4.10	4.41	4.71	6.00	\$7.02	_
1,750	4.40	4.04	4.31	4.63	5.85	6.84	_
2,000	4.35	3.99	4.20	4.58	5.75	6.72	\$7.89
2,250	4.32	3.96	4.13	4.53	5.67	6.63	7.79
2,500	4.30	3.95	4.05	4.49	5.63	6.57	7.73
2,750	4.30	3.93	4.02	4.44	5.58	6.53	7.67
3,000	4.30	3.92	4.01	4.41	5.55	6.50	7.62
3,500	4.30	3.90	3.99	4.37	5.49	6.44	7.55
4,000	4.30	3.89	3.98	4.35	5.45	6.38	7.49
5,000	4.30	3.87	3.96	4.35	5.37	6.29	7.38
6,000		3.86	3.95	4.35	5.31	6.21	7.29
7,000	_	_	3.93	4.35	5.27	6.17	7.23
8,000				4.35	5.25	6.14	7.20
9,000	_	_	_	4.35	5.24	6.12	7.17
10,000					5.22	6.11	7.16
12,000	_	_	_	_	_	6.09	7.14
15,000 or larger		_	_	_	_	6.08	7.13
Add for enclosed ends (per end)	600	660	850	990	1,300	1,600	2,200
ADJUSTMENT TO BASE							
4" Concrete Floor		(+)				\$3.85	
6" Concrete Floor		(+)				4.70	
Electric		(+)				0.45	
Water		(+)				0.40	
Metal or Wood/Pole Pony Wall, 4' high		(+)				23.75	
Metal or Wood/Pole Pony Wall, 6' high	gh 💮	(+)				34.00	
Metal or Wood/Pole Pony Wall, 8' high	jh	(+)				44.00	
Reinforced Concrete Pony Wall, 4' hi		(+)				52.00	
Reinforced Concrete Pony Wall, 6' hi	gh	(+)				75.60	P.L.F.
Reinforced Concrete Pony Wall, 8' hi		(+)				98.80	P.L.F.
• •	-	` '					





POULTRY HOUSES

Foundation Concrete or equal walls and footings or piers.

Walls Wood siding on wood studs 6' to 9' high, wood sash windows, wood doors.

Roof Gable or monitor, asphalt or wood shingles, wood rafters.

Floor Concrete slab or 1" plank on wood joist.

Mechanical Equipment Electrical wiring.

<u>AREA</u>	PRICE PER S.F.	<u>4</u>	
100	\$30.75	\$3,075	
200	27.70	5,540	
400	20.15	8,060	
800	16.25	13,000	
1,200	14.95	17,940	
1,600	13.65	21,840	
2,000	13.20	26,400	
3,000	11.95	35,850	
4,000	11.60	46,400	
Over 4 000	11 30		

No Electric	(–)	\$1.10 P.S.F.
No Floor	(-)	2.10 P.S.F.
Masonry Construction	(+)	15%
Ventilators	(+)	\$220.00 - 440.00 Each





EGG LAYING BUILDINGS

Foundation Concrete walls and footings.

Walls Vertical siding or metal on wood frame 6' to 8' high, wood sash windows, wood doors.

Roof Gable, composition, metal, or wood shingles on wood rafters.

Floor Concrete slab with manure trenches.

Mechanical Equipment Electrical wiring.

<u>AREA</u>	PRICE PER S.F.	<u>4</u>	
1,000	\$10.40	\$10,400	
2,000	9.40	18,800	
3,000	9.10	27,300	
4,000	8.70	34,800	
5,000	8.40	42,000	
7,500	8.10	60,750	
10,000	7.90	79,000	
15,000	7.80	117,000	
20,000	7.70	154,000	
25,000	7.60	190,000	
Over 25,000	7.60		

Concrete Pit	(+)	See Concrete Pits	P.S.F.
Lined Walls	(+)	\$15.10	P.L.F.
No Floor	(–)	1.60	P.S.F.
Ventilators	(+)	5260.00 - 500.00	Each

	Price	Rang	ge	Typical	
Completely Automatic with Cleanout Troughs	\$5.40	-	\$7.00	\$6.20	Per Bird
Completely Automatic without Cleanout Troughs	4.60	-	5.60	5.10	Per Bird
Semi-Automatic without Cleanout Troughs	3.20	-	4.40	3.80	Per Bird



BROILER HOUSES

Foundation None, pole frame buildings.

Walls Galvanized metal on pole frame, partial curtain wall.

Roof Gable, galvanized metal on wood frame.

Floor Dirt.

Mechanical Equipment Minimal lighting.

<u>AREA</u>	PRICE PER S.F.	<u>4</u>
1,000	\$7.95	\$7,950
2,000	6.90	13,800
3,000	6.35	19,050
4,000	6.10	24,400
5,000	5.95	29,750
7,500	5.85	43,875
10,000	5.80	58,000
15,000	5.75	86,250
20,000	5.65	113,000
25,000	5.60	140,000
30,000	5.55	166,500
40,000	5.45	218,000
Over 40,000	5.40	

GRADING GUIDELINES

3 Grade – 6' - 8' eaves, enameled metal walls and roof.

4 Grade – 6' - 8' eaves, galvanized metal walls and roof.

5 Grade – 3' - 5' eaves, galvanized metal walls and roof.

Concrete Floor	(+)	\$1.80	P.S.F.
Insulation	(+)	0.60	P.S.F.S.A.

	Price	e Ra	ange	Typical	
Equipment – (Includes feeders, waterers, suspended infrared					_
heaters, curtains, automatic ventilation control.)	\$2.80	-	\$3.40	\$3.10	P.S.F.





CLASS 4 CLASS 5

MACHINE OR UTILITY BUILDINGS

Foundation Concrete or equal walls and footer.

<u>Walls</u> Vertical wood shingles or corrugated metal average 10' to 14' high, wood sash windows, wood sliding doors.

Roof Gable, asphalt shingles or corrugated metal on wood rafters or trusses.

Floor Concrete slab.

Mechanical Equipment Electrical wiring.

<u>AREA</u>	PRICE PER S.F.	<u>4</u>
200	\$17.40	\$3,480
400	15.50	6,200
600	13.90	8,340
800	13.10	10,480
1,000	12.60	12,600
1,200	11.60	13,920
1,600	10.90	17,440
2,000	10.30	20,600
2,400	9.90	23,760
2,800	9.70	27,160
3,200	9.60	30,720
3,600	9.30	33,480
4,000	9.00	36,000
Over 4 000	8 80	

Interior Lined - Walls & Ceiling	(+)	\$2.10	P.S.F.
Heating	(+)	1.15	P.S.F.
No Floor	(–)	2.10	P.S.F.
No Electric	(-)	1.25	P.S.F.
Open One Side	(-)	1.70	P.S.F.
Masonry Construction	(+)	15%	
Pole Construction (Use Classification No. 5)			



RIGID STEEL FRAME STEEL BLDG.



RIGID STEEL FRAME STEEL BLDG.



STEEL & WOOD FRAME STEEL BLDG.



STEEL FRAME SLANT WALLS STEEL BLDG.



POLE FRAME STEEL BUILDING



QUONSET STEEL FRAME STEEL BLDG.

STEEL UTILITY BUILDINGS

Foundation Reinforced concrete footer and foundation. Pole buildings have poles set in concrete.

Walls Colored steel panels (use proper schedule for framing).

Roof Gable. Colored steel panels (use proper schedule for framing).

Floor Reinforced concrete slab.

Openings One entry door.

Mechanical Equipment None.

<u>AREA</u>	RIGID STEEL <u>FRAME</u>	STEEL & WOOD FRAME OR <u>SLANT WALL</u>	POLE <u>FRAME</u>	QUONSET STEEL <u>FRAME</u>
400	\$30.90	\$21.90	\$14.50	\$23.20
600	27.10	19.10	12.90	20.30
800	25.20	17.70	12.20	18.90
1,000	23.10	16.20	11.40	17.30
1,500	21.90	15.10	11.20	16.40
1,800	20.20	14.90	11.20	15.20
2,000	19.70	14.40	11.00	14.80
2,800	18.80	13.60	10.70	14.10
4,000	17.70	12.80	10.20	13.30
4,800	16.90	12.20	10.10	12.70
6,000	16.30	11.70	9.80	12.20
8,000	15.10	10.90	9.30	11.30
10,000	14.80	10.70	9.20	11.10
15,000	13.90	10.00	8.80	10.40
20,000	13.40	9.70	8.60	10.10
30,000	12.90	9.40	8.40	_
40,000	12.30	9.00	8.10	_
50,000	12.10	8.80	8.10	_
60,000	11.90	8.60	8.00	_
80,000	11.50	8.40	7.80	_
100,000	11.40	8.30	7.70	_

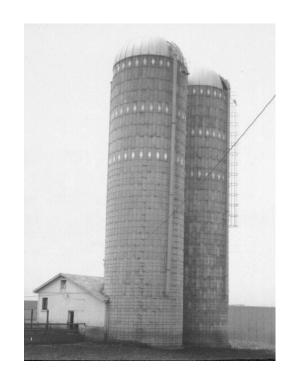
ADJUSTMENTS TO BASE PRICE

Metal Lining	(+)			\$2.70	P.S.F.S.A.
Metal Ceiling	(+)			2.00	P.S.F.
Insulation	(+)			0.65	P.S.F.S.A.
Electric	(+)	\$0.50	-	2.50	P.S.F.
Heating	(+)	0.60	-	1.80	P.S.F.
Earth Floor	(–)			3.10	P.S.F.
Open Side	(–)			60.00	P.L.F.
Steel Slide Doors	(+)	300.00	-	600.00	Each
Overhead Doors	(+)	450.00	-	1,400.00	Each
Rough Plumbing	(+)			4,000.00	Each
Toilet Room	(+)			1,300.00	Each

Galvanized walls and roof in place of enameled metal - Deduct 5%.

These costs are for average construction (Class 4).





SILOS

Glass lined double wall construction, enameled steel panels, walls and roof, concrete foundation, ladder and safety platform.

Concrete Stave - See page 8-34

PORCELAIN STEEL GLASS LINED

SIZI	<u>GRAIN</u>	<u>FORAGE</u>	SIZE	<u>GRAIN</u>	<u>FORAGE</u>
17 x 3	0 \$45,820	\$69,310	25 x 40	\$95,560	\$123,250
17 x 4	0 53,220	76,710	25 x 50	105,420	133,110
17 x 5	0 58,000	81,640	25 x 60	116,730	144,420
			25 x 70	137,750	166,460
20 x 3	0 61,480	85,550	25 x 80	149,060	177,770
20 x 4	0 67,720	91,930	25 x 90	163,270	191,840
20 x 5	0 74,100	98,460			
20 x 6	0 81,490	105,560	31 x 70	203,730	236,210
20 x 7	0 92,370	116,730	31 x 80	219,240	254,330
20 x 8	0 101,210	125,570	31 x 90	234,470	272,460
20 x 9	0 110.350	134.560			

<u>Grain Type</u> Silo includes foundation, basic silo, sweep auger, closure kit, trough cover kit, blower pipe, central fill and roof rail. (For "power sweep auger" add 10%.)

<u>Forage Type</u> Silo includes foundation, basic silo, steel floor, blower pipe, center fill, roof rail and Goliath unloader. (Unloaders: Hercules deduct 10%, Atlas add 10%.)

Note A forage silo with forage unloader can be used for grain storage, however, a grain storage silo with sweep auger cannot be used for forage.

SILOS - POURED CONCRETE AND CONCRETE STAVE

<u>Conventional</u> Concrete foundation, steel or aluminized roof, ladder and guard, fill platform, fill pipe. <u>No unloader or gooseneck</u> or electric.

<u>Limited Oxygen Forage & Grain</u> Concrete foundation, steel roof, hatches, pressure and exhaust valve, ladder and guard, center fill gooseneck and distributor, fill pipe, access door and bottom unloader complete, electric and control panels.

	CO	NVENTIONA	.L		AIN OXYGEN		AGE OXYGEN
			NO ROOF				
SIZE	STAVE	R'CONC.	DEDUCT	STAVE	R'CONC.	STAVE	R'CONC.
12 x 40	\$14,650	\$16,240	\$2,470		_	_	
12 x 50	17,400	19,000	2,470	_	_	_	_
14 x 40	16,530	18,270	2,900	_	_	_	_
14 x 50	19,430	21,320	2,900	_	_	_	_
16 x 30	_	_	3,190	\$41,330	\$42,920	_	_
16 x 40	18,420	20,300	3,190	44,660	46,550	_	_
16 x 50	21,900	24,070	3,190	48,430	50,750	_	_
16 x 60	25,810	28,420	3,190	52,060	54,670	_	_
16 x 70	29,730	32,770	3,190	_	_	_	_
18 x 50	25,090	27,700	3,770	_	_	_	
18 x 60	29,580	32,630	3,770	_	_	_	_
18 x 70	35,380	38,860	3,770	_	_	_	_
18 x 80	38,140	41,910	3,770	_	_	_	_
20 x 30	22,190	24,650	4,500	48,430	50,900	_	_
20 x 40	25,090	27,700	4,500	51,620	54,230	_	_
20 x 50	27,840	30,740	4,500	56,550	59,450	\$77,870	\$80,620
20 x 60	30,740	33,790	4,500	62,790	65,830	81,780	84,830
20 x 70	38,430	42,490	4,500	71,490	75,260	91,210	94,980
20 x 80	45,680	50,320	4,500	77,720	82,220	97,300	101,790
24 x 40	26,390	28,710	8,410	67,280	70,760	_	_
24 x 50	34,510	37,700	8,410	76,560	80,330	_	_
24 x 60	42,630	46,690	8,410	85,550	89,900	102,950	94,250
24 x 70	50,750	55,830	8,410	96,720	101,790	111,070	106,870
24 x 80	58,290	64,090	8,410	104,110	109,910	119,480	115,710
24 x 90	64,670	71,200	8,410	_	_	_	_
30 x 60	59,600	65,400	12,330	_			
30 x 70	69,170	75,980	12,330	_	_	_	<u> </u>
30 x 80	79,030	86,860	12,330	_		_	
30 x 90	85,840	94,250	12,330	_	_	_	_
30 x 100	_	101,790	12,330				
30 x 110	_	109,330	12,330	_	-	_	_
30 x 120	_	116,870	12,330	_	_	_	_

BOTTOM UNLOADERS

(Add to conventional silos only)

Grain & Ground Ear Corn

Ciair a Cioana	Lai Ooiii
20' dia. 6"	\$12,620
20' dia. 9"	17,980
24' dia. 9"	18,850

Forage (Chain Conveyor)

20' dia.	\$28,280
24' dia.	33,930
30' dia.	45,240

TOP UNLOADERS (Add to conventional silos only)

12' dia. \$10,300 14' dia. 10,300 16' dia. 10,730 18' dia. 11,310 20' dia. 12,180 24' dia. 14,070

SILOS

STEEL

Steel bolted or riveted walls and roof, concrete foundation with ladder, chute and safety platform.

<u>SIZE</u>	<u>PRICE</u>
15 x 20	\$22,190
15 x 30	23,780
15 x 40	30,020
15 x 50	33,930
18 x 20	24,360
18 x 30	28,710
18 x 40	32,480
18 x 50	39,150

<u>SIZE</u>	<u>PRICE</u>
20 x 20	\$27,120
20 x 30	33,350
20 x 40	39,730
20 x 60	52,200
25 x 30	44,080
25 x 40	51,480
25 x 50	62,350
25 x 60	73,660



PORCELAIN STEEL SLURRY SYSTEM

SIZE	<u>GALLONS</u>	PRICE
25 x 14	52,900	\$23,640
25 x 19	69,900	29,290
25 x 23	87,000	34,510
42 x 14	146,900	51,040
42 x 19	194,400	64,820
42 x 23	241,800	77,140
42 x 28	289,200	88,020
50 x 14	211,800	67,570
50 x 19	280,000	83,230
59 x 14	288,300	79,460
59 x 19	381,200	96,720
62 x 14	316,100	77,870
62 x 19	418,100	93,380
62 x 23	520,100	110,060
62 x 28	622,000	126,150
70 x 14	408,600	93,670
70 x 19	540,200	104,260
78 x 14	512,500	111,510
78 x 19	677,600	117,890

SIZE	GALLONS	<u>PRICE</u>
81 x 14	549,400	\$116,290
81 x 19	726,600	129,490
81 x 23	903,800	142,830
81 x 28	1,081,100	164,580
95 x 14	755,700	123,830
95 x 19	999,200	153,560
101 x 14	847,300	129,050
101 x 19	1,120,400	159,210
101 x 23	1,394,200	196,040
101 x 28	1,667,300	232,150
112 x 14	1,046,000	144,130
112 x 19	1,383,000	180,530
120 x 14	1,209,200	163,130
120 x 19	1,598,800	204,020
120 x 23	1,988,400	250,850
120 x 28	2,378,000	296,530
123 x 14	1,265,000	168,780
123 x 19	1,673,000	213,440
140 x 14	1,634,400	213,300
140 x 19	2,160,800	269,410

Concrete figured at ground level only. Price does not include pump or wagon.

Stationary pumps (+)

\$5,800 Each

CONCRETE STAVE SLURRY SYSTEM

SIZE	GALLONS	<u>PRICE</u>	SI	ΖI
20 x 10	23,500	\$10,010	40 x	7
20 x 12.5	29,400	10,590	40 x	1
20 x 15	35,300	11,310	40 x	1
20 x 17.5	41,200	12,470	40 x	. 1
24 x 7.5	25,400	10,150	50 x	7
24 x 10	33,900	11,310	50 x	1
24 x 12.5	42,400	12,180	50 x	1
24 x 15	50,900	13,050		
24 x 17.5	59,300	14,500	60 x	7
			60 x	: 1
30 x 7.5	39,700	12,910	60 x	1
30 x 10	53,000	13,920		
30 x 12.5	66,200	15,230	70 x	7
30 x 15	79,500	16,240	70 x	1
30 x 17.5	92,700	18,420	70 x	1

<u>SIZE</u>	GALLONS	<u>PRICE</u>
40 x 7.5	70,500	\$17,690
40 x 10	94,200	19,140
40 x 12.5	117,800	21,320
40 x 15	141,300	23,350
50 x 7.5	110,200	22,330
50 x 10	147,200	25,090
50 x 12.5	184,000	28,570
60 x 7.5	158,600	30,890
60 x 10	212,000	34,220
60 x 12.5	264,900	39,010
70 x 7.5	215,900	39,730
70 x 10	283,500	43,500
70 x 12.5	360,600	48,720
80 x 10	376,800	52,490
80 x 12.5	471,000	58,730

Note: Concrete stave slurry systems are ground level systems. Prices include excavation.



CLASS 3 DOUBLE CRIB/OVERHEAD BIN



CLASS 5 DOUBLE CRIB



CLASS 3+10 CONCRETE STAVE DOUBLE CRIB WITH OVERHEAD BIN



CLASS 3 DOUBLE CRIB/OVERHEAD BIN



CLASS 3+10 CONCRETE STAVE DOUBLE CRIB



CLASS 5 WIRE MESH CRIB





CRIBS

Foundation Concrete walls and footings.

Walls 1" x 6" boards with 1½" spacing on wood studs 10' to 12' high, with wood hinged or track door each end.

Roof Gable, composition or wood shingles on 1" wood deck or roof boards, wood rafters.

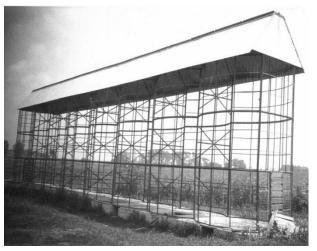
Floor Concrete or wood.

Mechanical Equipment None.

<u>AREA</u>	PRICE PER S.F.	<u>4</u>	
100	\$25.10	\$2,510	
200	24.20	4,840	
400	23.80	9,520	
600	21.50	12,900	
800	20.60	16,480	
1,000	18.10	18,100	
1,200	16.80	20,160	
1,400	16.20	22,680	
1,600	15.50	24,800	
1,800	15.40	27,720	
2,000	14.90	29,800	
Over 2,000	14.80		

Overhead Bins	(+)	\$3.25 P.S.F.
No Center Partitions	(-)	3.55 P.S.F.
Concrete or Tile Stave Construction	(+)	30%
Single Crib with Single Pitched Roof, Slatted or Wire Mesh Walls,		
Wood Floor and Pier Foundation	(–)	50%
Granary with Solid Sides	(+)	10%
Granary with Lined Solid Sides	(+)	25%
Crib with one side as Granary	(+)	10%





WIRE GRAIN STORAGE BINS

Foundation Concrete or equal.

Walls Wire mesh.

Roof Galvanized steel.

Frame Steel frame.

	ROUND	
<u>SIZE</u>	CAPACITY	<u>COST</u>
13' x 8'	500	\$1,410
13' x 12'	700	1,640
13' x 14'	850	1,840
13' x 17'	1,000	2,120
17' x 12'	1,400	2,580
17' x 14'	1,700	2,940

RECTANGLE									
<u>SIZE</u>	<u>COST</u>								
7' x 18'	600	\$1,640							
7' x 27'	900	2,120							
7' x 36'	1,200	2,810							
10' x 18'	800	1,890							
10' x 27'	1,200	2,580							
10' x 36'	1,600	3,290							

ADJUSTMENTS

For each additional 9' section	(+)	\$710.00	
Liner	(+)	0.85	P.S.F.S.A.
No concrete floor	(-)	1.95	P.S.F.





SHEDS

Foundation Piers or wall foundation.

Walls Vertical siding on wood studs 8' to 10' high, wood doors.

Roof Gable, asphalt or wood shingles on wood deck or roof boards.

Floor Concrete slab or wood plank and wood joist.

Mechanical Equipment None.

<u>AREA</u>	PRICE PER S.F.	<u>4</u>	
100	\$22.30	\$2,230	
200	17.80	3,560	
400	13.90	5,560	
600	12.50	7,500	
800	11.60	9,280	
1,000	10.90	10,900	
1,200	10.30	12,360	
1,400	9.90	13,860	
1,600	9.70	15,520	
1,800	9.00	16,200	
2,000	8.80	17,600	
Over 2,000	8.60		

Electric	(+)	\$0.80	P.S.F.
No Floor	(–)	2.10	P.S.F.
Masonry Construction - Same as frame			





STEEL BULK FEED TANKS



OPEN FEED BUNK – AUGER TYPE



FEED BUNK WITH CANOPY - BELT TYPE



CONCRETE SILAGE BUNKER ABOVE GROUND



CONCRETE SILAGE BUNKER

STEEL BULK FEED TANKS

	Si	ze	Сар	acity	Pı	rice		S	ize	Сар	acity	P	rice
		Sidewall			Bolted	Welded	1		Sidewall		_	Bolted	Welded
DIA	<u>x</u>	<u>Height</u>	BU.	<u>Tons</u>	Steel	Steel	DIA	<u>x</u>	Height	BU.	<u>Tons</u>	Steel	Steel
6'	Х	3'	100	2.5	\$1,440	_	16'	Х	15'	3,254	81.4	_	\$16,030
6'	Х	5'	178	4.5	1,660	\$2,990	16'	Х	17'	3,607	90.2	_	16,850
6'	Х	8'	250	6.3	1,780	3,440	16'	Х	20'	4,119	103.0	_	18,110
6'	Х	10'	298	7.5	_	3,800	16'	Х	25'	4,973	124.3	_	20,820
6'	Χ	11'	322	8.1	1,950	_	16'	Χ	30'	5,828	145.7		24,090
6'	Х	12'	346	8.7	_	3,960	18'	Х	11'	4,080	102.0	\$17,370	
7'	X	3'	140	3.5	1,750	_	18'	Х	13'	4,860	121.5	18,200	_
7' 7'	X	5' 8'	220 300	5.5 7.5	1,980 2,230	_	18' 18'	X	16' 19'	5,635 6,415	140.9 160.4	19,070 19,910	_
7'	X	11'	380	9.5	2,230	_	18'	X	21'	7,190	179.8	20,700	_
7'	X	13'	465	11.6	2,900	_	18'	X	24'	7,970	199.3	21,770	_
7'	Х	16'	550	13.8	3,140	_	18'	Х	27'	8,754	218.8	22,870	_
8'	Х	5'	351	8.8	_	4,020	18'	Х	29'	9,525	238.1	24,100	_
8'	Х	8'	479	12.0	_	4,610	18'	Х	32'	10,305	257.6	25,800	_
8'	Χ	10'	564	14.1	_	5,000	18'	Χ	35'	11,180	279.5	27,680	_
8'	Х	12'	765	19.1	_	5,260	18'	Х	37'	11,860	296.5	29,550	_
9'	Χ	5'	390	9.8	2,780	_	21'	Χ	11'	5,695	142.4	21,230	_
9'	X	8'	629	15.7	3,110	5,020	21'	X	13'	6,755	168.9	22,140	_
9'	X X	10' 11'	737 791	18.4 19.8	3,420	5,540	21' 21'	X	16' 19'	7,810 8,870	195.3 221.8	22,980 24,000	_
9'	X	12'	845	21.1	3,420	6,030	21'	X	21'	9,930	248.3	24,000	_
9'	X	13'	899	22.5	3,810		21'	X	24'	10,985	274.6	26,100	_
9'	Х	15'	953	23.8	_	6,520	21'	Х	27'	12,045	301.1	27,630	_
9'	Х	16'	1,007	25.2	4,410	<u>-</u>	21'	Х	29'	13,105	327.6	28,930	_
10'	Х	10'	938	23.5	_	6,430	21'	Х	32'	14,165	354.1	30,850	_
10'	Х	12'	1,025	25.6		7,120	21'	Х	35'	15,220	380.5	33,000	
10'	Χ	15'	1,271	31.8		7,880	21'	Χ	37'	16,280	407.0	35,120	_
12'	Х	5'	776	19.4	5,970	7,200	24'	Х	11'	7,785	194.6	25,960	_
12'	X	8'	1,064	26.6	6,450	7,800	24'	X	13'	9,165	229.1	27,040	_
12' 12'	X	10' 11'	1,256 1,352	31.4 33.8	7,080	8,260 —	24' 24'	X	16' 19'	10,545 11,930	263.6 298.3	28,100 29,290	_
12'	X	12'	1,448	36.2	<i>1</i> ,000	8,710	24'	X	21'	13,310	332.8	30,530	
12'	X	13'	1,540	38.5	8,090	-	24'	X	24'	14,695	367.4	32,400	_
12'	Х	15'	1,737	43.4	_	9,740	24'	Х	27'	16,075	401.9	33,660	_
12'	Х	16'	1,830	45.8	8,740	<u> </u>	24'	Х	29'	17,455	436.4	35,750	_
12'	Х	17'	1,930	48.3	_	10,470	24'	Х	32'	18,840	471.0	38,100	_
12'	Χ	19'	2,120	53.0	9,500	_	24'	Χ	35'	20,220	505.5	40,430	_
12'	Х	20'	2,218	55.5		11,310	24'	Х	37'	21,600	540.0	42,750	
12'	Х	25'	2,699	67.5	_	13,180	27'	Χ	11'	9,890	247.3	37,440	_
13.5'		10'	1,637	40.9	_	10,570	27'	X	13'	11,640	291.0	38,760	_
13.5' 13.5'		12' 15'	1,881 2,246	47.0 56.2	_	11,340 12,340	27' 27'	X	16' 19'	13,390 15,140	334.8 378.5	40,170 41,770	_
13.5		17'	2,489	62.2	_	13,620	27'	X	21'	16,895	422.4	43,270	_
13.5		20'	2,854	71.4	_	14,540	27'	X	24'	18,645	466.1	45,470	_
13.5		25'	3,462	86.6	_	15,870	27'	Х	27'	20,395	509.9	47,660	_
13.5'		28'	3,872	96.8	_	16,970	27'	Х	29'	22,145	553.6	49,770	_
13.5		30'	4,071	101.8	_	17,820	27'	Х	32'	23,895	597.4	52,840	_
15'	Х	5'	1,340	33.5	9,440		27'	Х	35'	25,650	641.3	54,950	
15'	Χ	8'	1,735	43.4	10,100	_	27'	Χ	37'	27,400	685.0	58,750	_
15'	Х	11'	2,715	67.9	12,400	_	30'	Х	11'	12,615	315.4	44,750	_
15'	X	13'	3,255	81.4	13,930	_	30'	Х	13'	14,775	369.4	46,340	_
15' 15'	X	16' 19'	3,790 4,330	94.8 108.3	14,530 15,350	_	30' 30'	X	16' 19'	16,940 19,105	423.5 477.6	47,930 49,690	_
15'	X	21'	4,870	121.8	16,030	_	30'	X	21'	21,270	531.8	52,160	_
15'	X	24'	5,410	135.3	16,890	_	30'	X	24'	23,435	585.9	53,800	_
15'	X	27'	5,945	148.6	17,830	_	30'	X	27'	25,595	639.9	56,370	_
15'	Х	29'	6,485	162.1	18,840	_	30'	Х	29'	27,760	694.0	59,940	_
15'	Х	32'	7,025	175.6	19,870	_	30'	Х	32'	29,925	748.1	62,750	_
15'	Х	35'	7,560	189.0	21,380	_	30'	Х	35'	32,090	802.3	66,650	_
16'	Χ	10'	2,410	60.3	_	13,860	30'	Х	37'	34,255	856.4	70,120	_
16'	Χ	12'	2,751	68.8	_	14,370	1						

STEEL BULK FEED TANKS (CONT.)

Prices include steel supports, concrete piers or pads, roof, ladder, and slide valve. Center draw hopper bottoms.

Bushel and ton capacities may differ by 20% due to different degree of slope to the hopper bottom.

See Conveyors and Augers in Section 6 for large commercial conveyors and augers.

Add for inclined unloading auger.

Unloader includes: boot, tail piece, tube and auger, motor and drive.

SIZE	<u>E</u>	<u>H.P.</u>	PRICE	
4" x	10'	х	1/2	\$790
4" x	15'	Х	3/4	880
4" x	25'	Х	3/4	1,040
6" x	10'	X	3/4	940
6" x	15'	Х	1	1,070
6" x	25'	X	2	1,570
6" x	30'	Х	3	1,850
6" x	40'	Х	5	2.350

<u>SIZE</u>				<u>H.P.</u>	<u>PRICE</u>
8"	Х	10'	х	1½	\$1,430
8"	Х	15'	Х	2	1,740
8"	Х	25'	Х	3	2,350
8"	Х	40'	Х	5	3,480
10"	Х	10'	х	3	2,300
10"	Х	15'	Х	5	2,780
10"	Х	25'	Х	5	3,650
10"	Х	40'	Х	7½	5,500

Some materials add for unloading agitation system (chain type)

6' - 9' diameter bin x 1½ H.P. \$1,070 9' - 12' diameter bin x 3 H.P. 1,770 9' - 12' diameter bin x 5 H.P. 2,240

PVC FLEX AUGER SYSTEMS

(Price per L.F.)

<u>Diameter</u>	<u>20'</u>	<u>30'</u>	<u>40'</u>	<u>50'</u>	<u>75'</u>	<u>100'</u>	<u>125'</u>	<u>150'</u>	<u>175'</u>	<u>200'</u>
21/2"	63.75	43.50	33.75	28.00	20.75	15.50	13.75	11.75	11.00	10.00
3"	74.50	51.75	40.00	33.25	25.25	20.00	18.00	16.00	15.00	14.00
3½"	78.25	54.00	43.25	35.75	27.00	21.50	20.25	19.00	17.50	16.25
5"	102.00	71.75	58.00	48.25	40.00	33.00	30.25	27.00	24.75	23.50

MISCELLANEOUS FARM ITEMS

FEEDER BUNKS

Pre-cast Concrete Bunk "H" Type	(+)	\$31.20	P.L.F.
Pre-cast Concrete Bunk (fence)	(+)	22.50	P.L.F.
Wood Plank Bunk	(+)	16.70	P.L.F.
Wood Plank Bunk (fence)	(+)	13.00	P.L.F.
Roof 8' to 12' wide	(+)	5.80	P.L.F.

Add for concrete floors, see below.

MECHANICAL FEEDERS WITH AUTOMATIC CONTROLS

		<u>50'</u>	<u>100'</u>	<u>150'</u>	
Auger with Drive	(+)	\$105.00	\$88.00	\$84.00	P.L.F.
Belt Conveyor	(+)	130.00	114.00	109.00	P.L.F.
		Price I	Range	Typical	
Concrete Feed Floors or Aprons		\$2.15	- \$2.95	\$2.55	P.S.F.

SILAGE TRENCHES OR PITS

Trench Silage Bunker 30' wide x 10' deep -

	Concrete walls and concrete bottom	(+)	\$225.00	(Average) P.L.F
	Timber walls and concrete bottom	(+)	160.00	(Average) P.L.F
	Earth walls and concrete bottom	(+)	80.00	(Average) P.L.F

For each two foot of variation in depth ------ Add or Deduct 12% For each two foot of variation in width------ Add or Deduct 3%